

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An electrical component with a piezoelectric functional layer, comprising

[[-]]] a substrate; (S)

[[-]]] a first electrode layer; (E1)

[[-]]] a structured growth layer (W) that is thin relative to said structured and that is thinner than the first electrode layer;

[[-]]] a piezoelectric layer; and (P)

[[-]]] a second electrode layer (E2).

2. (Currently Amended) The electrical component in accordance with of claim 1, in which said wherein the growth layer (W) is applied to said on the first electrode layer (E1), the growth layer is structured relative to said the first electrode layer, and the growth layer has a smaller surface area than the first electrode layer latter.

3. (Currently Amended) The electrical component in accordance with of claim 1 or 2, in which said wherein the piezoelectric layer (P) completely (i) substantially covers said the growth layer (W), and (ii) overlaps the latter growth layer along a perimeter of

the growth layer, thereby causing its entire circumference, and encloses there with said
the piezoelectric layer and the first electrode layer to substantially enclose the growth
layer (E1).

4. (Currently Amended) The electrical component of claim 1 in accordance with
any of claims 1—3, in which said wherein the growth layer (W) is selected depending on
said piezoelectric layer (P) such that it supports its supports ordered growth relative to
the piezoelectric layer.

5. (Currently Amended) The electrical component of claim 1 in accordance with
any of claims 1—4, in which said wherein the growth layer (W) is selected from
comprises at least one of the following: Au, Mo, W, Pt, Si₃N₄, sapphire, spinel, Si,
Ba₃TiO₃, ZrO₂, MgO, and TiO₂.

6. (Currently Amended) The electrical component of claim 1 in accordance with
any of claims 1—5, wherein the in which said piezoelectric layer comprises at least one
of (P) is selected from AlN and ZnO.

7. (Currently Amended) The electrical component of claim 1 in accordance with
any of claims 1—6, in which said wherein the first electrode layer (E1) has a multilayer
structure that includes comprises multiple layers, the multiple layers comprising a
titanium layer and another layer that is not titanium as a different layer from the upper-

~~most layer of the multilayer structure.~~

8. (Currently Amended) The electrical component of claim 1 in accordance with any of claims 1—7, in which further comprising:

~~an acoustic mirror (AS) is arranged between the substrate (S) and the first electrode layer (E1).~~

9. (Currently Amended) The electrical component of claim 1 in accordance with any of claims 1—7, further comprising:

~~including a multilayer structure with comprising a plurality of piezoelectric layers; and (P),~~

~~between each of which is arranged an additional electrode layer (E) and an additional growth layer between pairs of the plurality of piezoelectric layers (W).~~

10. (Currently Amended) Component in accordance with claim 9, embodied as A piezoelectric actuator comprising the electrical component of claim 1.

11. (Currently Amended) Component in accordance with any of claims 1—8, embodied as an arrangement with A bulk acoustic wave resonator comprising: the electrical component of claim 1 at least one resonator working with bulk acoustic waves.

12. (Currently Amended) A method for producing a component that includes that includes at least one bulk acoustic wave resonator, the method comprising: working with bulk acoustic waves, with the steps

[[[-]] applying a first electrode layer (E1) to a substrate; (S)
[[[-]] structuring said the first electrode layer at least to produce a first electrode region; (E11)
[[[-]] applying a growth layer (W) over said to the first electrode region; (E11)
[[[-]] structuring said the growth layer such to produce that a growth region remains exclusively over said the first electrode region, the growth region having and has a smaller surface area than said the first electrode region; (E11)
[[[-]] whole surface growth of growing a piezoelectric layer (P) under conditions that make possible a having crystal-axis oriented growth over said the growth region;
[[[-]] structuring of said the piezoelectric layer (P) such so that it the piezoelectric layer completely covers said the growth region[[,]] and so that the piezoelectric layer overlaps it the growth region laterally along a perimeter of the growth region its entire circumference, and encloses there with said wherein the first electrode layer and the piezoelectric layer enclose the growth region; (E1)
[[[-]] application applying and structuring of a second electrode layer above the piezoelectric layer relative to the first electrode layer; and (E2)
structuring the second electrode layer.

13. (Currently Amended) The method in accordance with of claim 12 9,

wherein in which the structuring of said the growth layer (W) occurs is performed via wet chemical etching wet chemically.

14. (Currently Amended) The method of claim 12 in accordance with claim 9 or 10, wherein applying the growth layer comprises vapor-depositing in which a gold layer is vapor deposited as said growth layer (W).

15. (Currently Amended) The method of claim 12 in accordance with any of claims 9 - 12, wherein growing the in which the growth of said piezoelectric layer (P) occurs by means of is performed via a CVD or PVD process.

16. (New) The electrical component of claim 2, wherein the piezoelectric layer (i) substantially covers the growth layer and (ii) overlaps the growth layer along a perimeter of the growth layer, thereby causing the piezoelectric layer and the first electrode layer to substantially enclose the growth layer.

17. (New) The electrical component of claim 2, wherein the growth layer supports ordered growth relative to the piezoelectric layer.

18. (New) The electrical component of claim 2, wherein the growth layer comprises at least one of the following: Au, Mo, W, Pt, Si₃N₄, sapphire, spinel, Si, Ba₃TiO₃, ZrO₂, MgO, and TiO₂.

19. (New) The electrical component of claim 2, wherein the piezoelectric layer comprises at least one of AlN and ZnO.

20. (New) The electrical component of claim 2, wherein the first electrode layer comprises multiple layers, the multiple layers comprising a titanium layer and another layer that is not titanium.